

**NONAQUEOUS ELECTROLYTIC SOLUTION AND LITHIUM SECONDARY BATTERY USING SAME****Publication number:** JP2001043895**Publication date:** 2001-02-16**Inventor:** HAMAMOTO SHUNICHI; UEKI AKIRA; ABE KOJI;  
MATSUMORI YASUO**Applicant:** UBE INDUSTRIES**Classification:****- international:** *H01M10/40; C01B31/02; C01B31/04; H01M4/58;  
H01M6/16; H01M10/36; H01M10/36; C01B31/00;  
H01M4/58; H01M6/16; (IPC1-7): H01M10/40; H01M4/58***- european:****Application number:** JP20000116327 20000418**Priority number(s):** JP20000116327 20000418; JP19990143222 19990524**Also published as:**

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**PROBLEM TO BE SOLVED:** To provide a lithium secondary battery excellent in battery cycle characteristic, and in battery characteristics such as electrical capacity and charge preservation characteristics. **SOLUTION:** In this nonaqueous electrolytic solution made by dissolving an electrolyte in a nonaqueous solvent, the nonaqueous solvent includes two or more kinds of compounds mainly composed of a cyclic carbonate and a chain carbonate. With respect to the compounds, there is a difference of 0.4 V or less in reduction potential between a compound having the highest reduction potential and a compound having the lowest reduction potential. This nonaqueous electrolytic solution is used in a lithium secondary battery.

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